The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising the steps of: forming an insulating film comprising silicon oxide over a glass substrate, wherein the insulating film includes halogen at a concentration of 5 x 10²⁰ cm⁻³ or less and carbon at a concentration of 5 x 10¹⁹ cm⁻³ or less which are detected by secondary ion mass spectroscopy.

- 2. (Previously Presented) A method according to claim 1, wherein the halogen is chlorine.
- 3. (Previously Presented) A method according to claim 1, wherein the insulating film includes carbon at a concentration of 1 x 10¹⁸ cm⁻³ or less which is detected by the secondary ion mass spectroscopy.
- 4. (Original) A method according to claim 1, wherein said insulating film is a gate insulating film.
- 5. (Original) A method according to claim 1, wherein the insulating film is an insulating film in a thin film transistor.
- 6. (Original) A method according to claim 1, wherein the insulating film covers an even surface over the glass substrate.

- 7. (Original) A method according to claim 1, wherein the insulating film includes halogen at a concentration of 1 x 10¹⁷ cm⁻³ or more.
- 8. (Currently Amended) A method of producing a semiconductor device, said method comprising the steps of:

forming a crystalline semiconductor island formed over a glass substrate; and forming an insulating film including silicon oxide formed to cover the crystalline semiconductor island,

wherein the insulating film includes halogen at a concentration of 5 x $10^{20} \ \text{cm}^{-3}$ or less and carbon at a concentration of 5 x 10¹⁹ cm⁻³ or less.

- (Original) A method according to claim 8, wherein the concentrations of halogen and carbon are detected by secondary ion mass spectroscopy.
- 10. (Previously Presented) A method according to claim 8, wherein the halogen is chlorine.
- 11. (Original) A method according to claim 8, wherein the insulating film is formed by plasma chemical vapor deposition using an organic silane.
- (Original) A method according to claim 8, wherein the insulating film 12. includes halogen at a concentration of 1 x 10¹⁷ cm⁻³ or more.
- 13. (Currently Amended) A method of fabricating a thin film transistor, said method comprising the steps of:

forming a crystalline semiconductor island formed over a glass substrate:

forming [[a]] an insulating film comprising silicon oxide film formed over the crystalline semiconductor island; and

forming a conductive film including at least one of aluminum, titanium, and titanium nitride, said conductive film being formed on the silicon oxide insulating film,

wherein the silicon oxide insulating film includes halogen at a concentration of 5 x 10^{20} cm⁻³ or less and carbon at a concentration of 5 x 10^{19} cm⁻³ or less.

- 14. (Previously Presented) A method according to claim 13, wherein the halogen is chlorine.
- 15. (Currently Amended) A method according to claim 13, wherein the silicon exide insulating film is formed by plasma chemical vapor deposition using an organic silane.
- 16. (Currently Amended) A method according to claim 13, wherein the silicon exide insulating film includes halogen at a concentration of 1 x 10^{17} cm⁻³ or more.
- 17. (Currently Amended) A method of fabricating a thin film transistor, said method comprising the steps of:

forming a crystalline semiconductor island formed over a glass substrate;

forming a gate insulating film including silicon oxide formed on the crystalline semiconductor island; and

forming a gate electrode formed on the insulating film,

wherein the gate insulating film includes halogen at a concentration of 5×10^{20} cm⁻³ or less and carbon at a concentration of 5×10^{19} cm⁻³ or less.

18. (Previously Presented) A method according to claim 17, wherein the halogen is chlorine.

- 19. (Original) A method according to claim 17, wherein the gate insulating film is formed by plasma chemical vapor deposition using an organic silane.
- 20. (Original) A method according to claim 17, wherein the gate insulating film includes halogen at a concentration of 1 x 10^{17} cm⁻³ or more.
- 21. (Previously Presented) A method according to claim 1, wherein the halogen is fluorine.
- 22. (Previously Presented) A method according to claim 8, wherein the halogen is fluorine.
- 23. (Previously Presented) A method according to claim 13, wherein the halogen is fluorine.
- 24. (Previously Presented) A method according to claim 17, wherein the halogen is fluorine.
- 25. (Previously Presented) A method of fabricating a thin film transistor, said method comprising the steps of:

forming at least a thin film transistor including a crystalline semiconductor island, a gate electrode adjacent to the crystalline semiconductor island with a gate insulating film interposed therebetween;

forming an interlayer insulating film comprising silicon oxide over the thin film transistor,

wherein the interlayer insulating film includes halogen at a concentration of 5 x 10^{20} cm⁻³ or less and carbon at a concentration of 5 x 10^{19} cm⁻³ or less.

- (Previously Presented) A method according to claim 25, wherein the 26. halogen is chlorine.
- (Previously Presented) A method according to claim 25, wherein the 27. halogen is fluorine.
- (Previously Presented) A method according to claim 25, wherein the 28. interlayer insulating film is formed by plasma chemical vapor deposition using an organic silane.
- (Previously Presented) A method according to claim 25, wherein the 29. interlayer insulating film includes halogen at a concentration of 1 x 10^{17} cm⁻³ or more.
- 30. (Previously Presented) A method of manufacturing a semiconductor device comprising:

forming a gate insulating film comprising silicon oxide on a channel region by plasma CVD using a reactive gas comprising at least an organic silane,

wherein said gate insulating film contains halogen at a concentration of 5 x 10²⁰ cm⁻³ or less and carbon at a concentration of 5 x 10¹⁹ cm⁻³ or less.

31. (Previously Presented) A method of fabricating a semiconductor device, said method comprising the steps of:

forming an interlayer insulating film comprising silicon oxide over a transistor, wherein the interlayer insulating film includes a halogen at a concentration of 5 x 10²⁰ cm⁻³ or less and carbon at a concentration of 5 x 10¹⁹ cm⁻³ or less.

32. (Previously Presented) A method of fabricating a semiconductor device according to claim 31, wherein the halogen is chlorine.

- 33. (Previously Presented) A method of fabricating a semiconductor device according to claim 31 wherein the halogen is fluorine.
- 34. (Previously Presented) A method of fabricating a semiconductor device according to claim 31 wherein the interlayer insulating film is formed by plasma chemical vapor deposition using an organic silane.
- 35. (Previously Presented) A method of fabricating a semiconductor device according to claim 31 wherein the interlayer insulating film includes halogen at a concentration of 1×10^{17} cm⁻³ or more.
- 36. (Previously Presented) A method of fabricating a semiconductor device according to claim 31 wherein said transistor is a thin film transistor.
- 37. (New) A method according to claim 1 wherein the concentrations of halogen and carbon are detected by the secondary ion mass spectroscopy.
- 38. (New) A method according to claim 13, wherein the concentrations of halogen and carbon are detected by secondary ion mass spectroscopy.
- 39. (New) A method according to claim 17, wherein the concentrations of halogen and carbon are detected by secondary ion mass spectroscopy.
- 40. (New) A method according to claim 25, wherein the concentrations of halogen and carbon are detected by secondary ion mass spectroscopy.

- 41. (New) A method according to claim 30, wherein the concentrations of halogen and carbon are detected by secondary ion mass spectroscopy.
- 42. (New) A method according to claim 31, wherein the concentrations of halogen and carbon are detected by secondary ion mass spectroscopy.